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🔍 Title: **JP61246349A2: MANUFACTURE OF ALUMINUM ALLOY MEMBER**

🔍 Country: JP Japan

🔍 Kind: A

🔍 Inventor: YAMAMOTO JUNICHI;
YAMAMOTO YOSHIFUMI;
TAKAHASHI YUJI;
FUKAHORI MITSUGI;

🔍 Assignee: MAZDA MOTOR CORP
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🔍 Published / Filed: Nov. 1, 1986 / April 22, 1985

🔍 Application JP1985000086084

Number:

🔍 IPC Code: **C22F 1/04;**

🔍 Priority Number: April 22, 1985 JP1985000086084

🔍 Abstract:

PURPOSE: To improve thermal fatigue-resisting strength by subjecting an Al alloy stock which is locally melted by means of a high density energy heat ray and rapidly cooled to solution heat treatment and then to artificial aging treatment.

CONSTITUTION: The Al alloy stock is irradiated with the high density energy heat ray, for example, laser beam etc., while shifting the ray, so that the surface undergoes local melting, which is then cooled rapidly. Subsequently, the stock is heated at 480W520°C for 4W10Hr to undergo solution heat treatment and is then hardened, followed by artificial aging treatment, e.g. at 170W200°C for 6W10Hr.

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